Acadia National Park, Boundary Metadata

Identification_Information:
Citation:
Citation_Information:
Originator: U.S. Geological Survey, Upper Midwest Environmental Sciences Center, 2630 Fanta Reed Road, La Crosse, Wisconsin 54603
Publication_Date: 200310
Title: Boundary Coverages for the Acadia National Park Vegetation Mapping Project
Edition: Final
Geospatial_Data_Presentation_Form: map
Series_Information:
Series_Name: USGS-NPS Vegetation Mapping Program
Issue_Identification: Acadia NP Vegetation Mapping Project
Publication_Information:
Publication_Place: Denver, Colorado
Publisher: U.S. Geological Survey Center for Biological Informatics
Other_Citation_Details: These spatial database sets were prepared by the U.S. Geological Survey Upper Midwest Environmental Sciences Center for the USGS-NPS Vegetation Mapping Program.
Online_Linkage: <http://biology.usgs.gov/npsveg/acad/index.html#geospatial_veg_info>
Description:
Abstract: The U.S. Geological Survey Upper Midwest Environmental Sciences Center (UMESC) has produced a vegetation spatial database coverage (vegetation map) for the Acadia National Park Vegetation Mapping Project, USGS-NPS Vegetation Mapping Program (VMP). In support of the mapping project, various spatial database boundary coverages were either produced or modified from their original source. These boundary coverages are: 1) Project Boundary, 2) Map Data Boundary, 3) Park Boundary, and 4) Quad Boundary. The spatial coverages are projected in Universal Transverse Mercator, Zone 19, with datum in North American Datum of 1983.
Purpose: These spatial database coverages were either produced or modified from its original source to support the Acadia National Park Vegetation Mapping Project, USGS-NPS Vegetation Mapping Program. This metadata report supports four spatial database coverages (project boundary, map data boundary, park boundary, and quad boundary).
Supplemental_Information: All spatial coverages were produced using ArcView GIS (Version 3.3). The spatial coverages are available as Shapefile sets on the Project's CD-ROM (file name sets [acad_projbdy], [acad_mapbdy], [acad_parkbdy], and [acad_quadbdy]). The following provides a brief summary of each spatial database: 1) Project Boundary: polygon coverage showing the boundary extent of the mapping project (regardless of map data or no map data). 2) Map Data Boundary: polygon coverage showing the boundaries of map data (those areas actually mapped within the project boundary extent) and no map data (those areas purposely not mapped, yet fall within the project boundary extent). The original source of this coverage is from the project's vegetation spatial database coverage. 3) Park Boundary: polygon coverage showing access locations of park fee and easement lands (as of 1999). This coverage was modified from its original source (received from Acadia NP, June 1999) to identify accessible lands for the accuracy assessment fieldwork. 4) Quad Boundary: polygon coverage showing boundaries of USGS 3.75-minute and 7.5-minute quadrangles. This coverage was modified from its original source (received from Acadia NP, 1998) to represent those quadrangles within the project boundary.
Time_Period_of_Content:
Time_Period_Information:
Single_Date/Time:
Calendar_Date: 200310
Currentness_Reference: publication date
Status:
Progress: Complete
Maintenance_and_Update_Frequency: None planned
Spatial_Domain:

Description_of_Geographic_Extent: Acadia National Park, Maine
Bounding_Coordinates:
West_Bounding_Coordinate: -69
East_Bounding_Coordinate: -67.99681714
North_Bounding_Coordinate: 44.50139287
South_Bounding_Coordinate: 44.00201489
Keywords:
Theme:
Theme_Keyword_Thesaurus: None
Theme_Keyword: USGS Quadrangle
Theme_Keyword: Fee and Easement
Theme_Keyword: Acadia National Park Vegetation Mapping Project
Theme_Keyword: USGS-NPS Vegetation Mapping Program
Place:
Place_Keyword_Thesaurus: None
Place_Keyword: Acadia National Park
Place_Keyword: Bar Harbor
Place_Keyword: Mount Desert Island
Place_Keyword: Schoodic Peninsula
Place_Keyword: Isle au Haut
Place_Keyword: Hancock County
Place_Keyword: Maine
Place_Keyword: USA
Access_Constraints: GIS software
Use_Constraints: Those using these spatial database sets should understand the data and determine for themselves the fitness of the data prior to use. Mention of trade names or commercial products in this metadata report does not constitute endorsement or recommendation for use by the U. S. Department of the Interior, U. S. Geological Survey.
Point_of_Contact:
Contact_Information:
Contact_Organization_Primary:
Contact_Organization: USGS-NPS Vegetation Mapping Program Coordinator
Contact_Address:
Address_Type: mailing and physical address
Address: U.S. Geological Survey, Center for Biological Informatics, MS 302, Room 8000, Building 810, Denver Federal Center
City: Denver
State_or_Province: Colorado
Postal_Code: 80225
Country: USA
Contact_Voice_Telephone: (303) 202-4220
Contact_Facsimile_Telephone: (303) 202-4219
Contact_Electronic_Mail_Address: gs-b-npsveg@usgs.gov
Browse_Graphic:
Browse_Graphic_File_Name: <http://biology.usgs.gov/npsveg/acad/images/acadmapdata.gif>
Browse_Graphic_File_Description: Graphic of boundary coverages, low resolution for web browsing
Browse_Graphic_File_Type: GIF
Data_Set_Credit: U.S. Geological Survey Upper Midwest Environmental Sciences Center
Native_Data_Set_Environment: UNIX-ARC/INFO
Cross_Reference:
Citation_Information:
Originator: U.S. Geological Survey, Upper Midwest Environmental Sciences Center
Publication_Date: 200310
Title: Acadia National Park Vegetation Mapping Project
Geospatial_Data_Presentation_Form: report
Series_Information:

Series_Name: USGS-NPS Vegetation Mapping Program
Issue_Identification: Acadia NP Vegetation Mapping Project
Publication_Information:
Publication_Place: Denver, Colorado
Publisher: U.S. Geological Survey, Center for Biological Informatics
Other_Citation_Details: The Acadia National Park Vegetation Mapping Project is a product of the USGS-NPS Vegetation Mapping Program (VMP), which is managed by the U.S. Geological Survey (USGS) Center for Biological Informatics (for more information on VMP, see larger work citation below). The mapping project is one of few listed as pilot, with purpose to test and explore protocols in mapping and classifying vegetation for the VMP. --- The project began with a planning meeting March 1997 at Acadia National Park (NP). Spring photography was collected May 1997, the baseline data for subsequent field efforts and mapping. Vegetation samples were collected over 3 field seasons (1997-1999), with the majority collected during the first 2 years. Photointerpretation and subsequent digital automation transpired during 1998 & 1999, with supporting fieldwork during the 1997 & 1998 field seasons. The first draft of the vegetation map was completed and distributed January 2000. Vegetation data analyses for vegetation classification development were performed during 1999 & 2000. Local vegetation community descriptions were completed 2001. Accuracy assessment field data was collected during the 1999 field season. The data was applied to the vegetation map with concluding results spring 2003. --- The USGS Upper Midwest Environmental Sciences Center (UMESC) provided project coordination and compiled all project data for distribution. The UMESC produced all spatial database sets: vegetation map, observation points, vegetation sample plots, accuracy assessment sites, and various other supporting coverages. The UMESC also performed the accuracy assessment of the vegetation spatial database coverage, prepared final project documentation discussing methods and results, and provided metadata reports. The Nature Conservancy, NatureServe, and Maine Natural Areas Program provided ecological and vegetation support, vegetation field sampling (plot samples and accuracy assessment), data entry, vegetation analysis, methods and results documentation, and vegetation classification development (including vegetation community descriptions) based on the Federal Geographic Data Committee's National Vegetation Classification Standard with floristic level types defined by NatureServe's International Vegetation Classification (association and alliance classes of the National Vegetation Classification System). Acadia NP provided staff to assist in field efforts including GPS navigation and collection, lodging, boat transportation, and knowledge of the local area. --- The Project provides a technical report with details regarding methods and results. Metadata documents are provided for the vegetation spatial database coverage (vegetation map), field reconnaissance observations, vegetation field plots (samples), accuracy assessment, aerial photography, and project boundaries.
Online_Linkage: <http://biology.usgs.gov/npsveg/acad/>
Larger_Work_Citation:
Citation_Information:
Originator: U.S. Geological Survey, Center for Biological Information
Publication_Date: 200304
Title: USGS-NPS Vegetation Mapping Program (May 2003)
Geospatial_Data_Presentation_Form: online
Series_Information:
Series_Name: USGS-NPS Vegetation Mapping Program
Issue_Identification: Overview
Publication_Information:
Publication_Place: Denver, Colorado
Publisher: U.S. Geological Survey, Center for Biological Informatics
Other_Citation_Details: Overview of USGS - NPS Vegetation Mapping Program (taken from <http://biology.usgs.gov/npsveg/overview.html>, May 2003): The USGS-NPS Vegetation Mapping Program is a cooperative effort by the U.S. Geological Survey (USGS) and the National Park Service (NPS) to classify, describe, and map vegetation communities in more than 270 national park units across the United States. This landmark program is both the first to provide national-scale descriptions of vegetation for a federal agency and the first to create national vegetation standards for its data products. Its goal is to meet specific information needs identified by the National Park Service. --- The vegetation mapping program is an important part of the NPS Inventory and Monitoring Program, a long-term effort to develop baseline data for all national park units that have a natural resource component. It is managed by the USGS Center for Biological Informatics, a unique information center designed to help scientists, land managers, the public, and others locate and apply biological

information. --- Program activities are based on peer-reviewed, objective science. Comprehensive vegetation information is provided at national and regional levels, while also serving local management needs of individual parks. Stringent quality control procedures ensure that products are accurate and consistent for initial inventory purposes and replicable for monitoring purposes. The spatially enabled digital products produced by the program are available on the World Wide Web. --- Program scientists have developed data collection procedures for classification, mapping, accuracy assessment, and use of existing data. Program products meet Federal Geographic Data Committee standards for vegetation classification and metadata, and national standards for spatial accuracy and data transfer. Standards include a minimum mapping unit of 0.5 hectares and classification accuracy of 80% for each map class. Nature Serve, an important partner in the USGS-NPS Vegetation Mapping program, is the caretaker of the National Vegetation Classification System, which is used by the program to classify vegetation communities. --- A report of project methods and results is provided at completion of individual projects. Project results include a rich set of data and information for each park project, as follows: --- Spatial Data: Aerial photography, Map classification, Map classification description and key, Spatial database of vegetation communities, Hardcopy maps of vegetation communities, Metadata for spatial databases, Complete accuracy assessment of spatial data, Vegetation Information. --- Vegetation classification: Dichotomous field key of vegetation classes, Formal description for each vegetation class, Ground photos of vegetation classes, Field data in database format.
Online_Linkage: http://biology.usgs.gov/npsveg/

Data_Quality_Information:
Attribute_Accuracy:
Attribute_Accuracy_Report: Attribute accuracy was tested by manual comparison of the source with hard copy printouts. Attributes were further verified by visual inspection.
Logical_Consistency_Report: Tests for logical consistency are performed by digitizing software (ATLAS*GIS).
Completeness_Report: Dataset contains boundaries for only 340 of 375 park units. The missing units are typically very small (an acre or less) and don't show up on U.S. Geological Survey 7.5' quadrangles. Park boundaries are generally the legislative boundary only. No attempt has been made to include or exclude inholdings within the designated boundary. For some parks they are shown; others they are not shown.
Positional_Accuracy:
Horizontal_Positional_Accuracy:
Horizontal_Positional_Accuracy_Report: Horizontal accuracy varies depending on the source of each boundary included in the National Park System Boundary Dataset. The source of the Scotts Bluff National Monument Boundary was: "RMRO Land Div. 1:6,000 1973 Land Status Map".
Lineage:
Source_Information:
Source_Citation:
Citation_Information:
Originator: National Park Service, Water Resources Division.
Publication_Date: 20010503
Title: National Park System Boundary Dataset
Geospatial_Data_Presentation_Form: vector digital data
Type_of_Source_Media: electronic file
Source_Time_Period_of_Content:
Time_Period_Information:
Single_Date/Time:
Calendar_Date: 20010503
Source_Currentness_Reference: publication date
Source_Citation_Abbreviation: NPSWRDPARKBDYSVer.2
Source_Contribution: Source of FLFO boundary - National park unit designated boundaries
Process_Step:
Process_Description: This national park boundaries dataset was compiled by combining park boundaries from a variety of sources: extant digital park-based GIS databases; analog U.S. Geological Survey 7.5' 1:24,000 quadrangles; analog NPS Park Land Status Maps; legal descriptions; etc.). Digital boundaries from existing park GIS databases were converted to ATLAS*GIS format and thinned as necessary to reduce the number of points describing the boundary to a maximum of 4,096. Analog boundaries from the U.S. Geological Survey

7.5' 1:24,000 quadrangles and from NPS Park Land Status Maps were digitized in ATLAS*GIS and directly incorporated into the master dataset.
Process_Date: 1999

Spatial_Data_Organization_Information:
Direct_Spatial_Reference_Method: Vector

Spatial_Reference_Information:
Horizontal_Coordinate_System_Definition:
Planar:
Grid_Coordinate_System:
Grid_Coordinate_System_Name: Universal Transverse Mercator
Universal_Transverse_Mercator:
UTM_Zone_Number: 19
Transverse_Mercator:
Scale_Factor_at_Central_Meridian: 0.9996
Longitude_of_Central_Meridian: -69
Latitude_of_Projection_Origin: 0
False_Easting: 500000
False_Northing: 0
Planar_Coordinate_Information:
Planar_Coordinate_Encoding_Method: coordinate pair
Coordinate_Representation:
Abscissa_Resolution: 1
Ordinate_Resolution: 1
Planar_Distance_Units: meters
Geodetic_Model:
Horizontal_Datum_Name: North American Datum of 1983
Ellipsoid_Name: Geodedic Reference System 80
Semi-major_Axis: 6378137
Denominator_of_Flattening_Ratio: 298.257

Entity_and_Attribute_Information:
Overview_Description:
Entity_and_Attribute_Overview: Three basic attributes are assigned to each park boundary: (1) a unique four character code; (2) a full park name; and (3) boundary source information. The four character code is generally a combination of the first two letters of the first two words in a park's name (or the first four letters if the park has a one word name). For example, Yosemite National Park is YOSE while Rocky Mountain National Park is ROMO. The park's full name is the actual given name of the park. The boundary source information provides the date, scale, and originator of the particular park boundary.
Entity_and_Attribute_Detail_Citation: National Park Service/ National Biological Service Vegetation Mapping Project

Distribution_Information:
Distributor:
Contact_Information:
Contact_Person_Primary:
Contact_Person: USGS-NPS Vegetation Mapping Program Coordinator
Contact_Organization: USGS/BRD, Center for Biological Informatics
Contact_Address:
Address_Type: physical address
Address: USGS Biological Resources
Address: Center for Biological Informatics
Address: Denver Federal Center, Building 810
Address: Room 8000, MS302
City: Denver

State_or_Province: CO
Postal_Code: 80225-0046
Country: USA
Contact_Voice_Telephone: (303) 202-4220
Contact_Facsimile_Telephone: 303-202-4219 (org)
Contact_Electronic_Mail_Address: gs-b-npsveg@usgs.gov
Resource_Description: Downloadable Data
Distribution_Liability:
The USGS and the National Park Service shall not be held liable for improper or incorrect use of the data described and/or contained herein. These data and related graphics (if available) are not legal documents and are not intended to be used as such.

The information contained in these data is dynamic and may change over time. The data are not better than the original sources from which they were derived. It is the responsibility of the data user to use the data appropriately and consistent within the limitations of geospatial data in general and these data in particular. Any related graphics (if available) are intended to aid the data user in acquiring relevant data; it is not approriate to use the related graphics as data.

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Standard_Order_Process:
Digital_Form:
Digital_Transfer_Information:
Format_Name: HTML
Digital_Transfer_Option:
Online_Option:
Computer_Contact_Information:
Network_Address:
Network_Resource_Name: http://biology.usgs.gov/npsveg/acad/index.html#geospatial_veg_info
Access_Instructions: Internet Access
Fees: Organizations/individuals may need to provide suitable media to reporduce the data.

Metadata_Reference_Information:
Metadata_Date: 20031031
Metadata_Review_Date: 20060828
Metadata_Contact:
Contact_Information:
Contact_Organization_Primary:
Contact_Organization: USGS-NPS Vegetation Mapping Program Coordinator
Contact_Address:
Address_Type: mailing and physical address
Address:
U.S. Geological Survey, Center for Biological Informatics, MS 302,
Room 8000, Building 810, Denver Federal Center
City: Denver
State_or_Province: Colorado
Postal_Code: 80225
Country: USA
Contact_Voice_Telephone: (303) 202-4220
Contact_Facsimile_Telephone: (303) 202-4219
Contact_Electronic_Mail_Address: gs-b-npsveg@usgs.gov

Metadata_Standard_Name: FGDC-STD-001.1-1999 Content Standard for Digital Geospatial Metadata, 1998 Part 1: Biological Data Profile, 1999
Metadata_Standard_Version: FGDC-STD-001-1998
Metadata_Extensions:
Online_Linkage: http://biology.usgs.gov/fgdc.bio/bionwext.txt
Profile_Name: Biological Data Profile FGDC-STD-001.1-1999